



1001 Bayhill Drive, 2nd Floor, San Bruno, CA 94066  
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## Quarterly Air Monitoring Report Second Quarter of 2013

California State Board of Equalization Building  
450 N Street,  
Sacramento, California 95814

Contract No.: 3150891  
Task Order No.: 6

**Prepared For:**  
California Department of General Services  
707 Third Street Suite 3-305  
Sacramento, California

**Prepared By:**  
Mark W. Pheatt MS CIH  
Industrial Hygienist  
Andersen Environmental.  
Project No.,: 1306-933

Report Date: July 30, 2013

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## 1.0 Introduction

At the request of Verne Gore of Department of General Services of The State of California Real Estate Services, Project Management Branch Andersen Environmental was contracted to provide industrial hygiene and air monitoring services at the Board of Equalization (BOE) building located at 450 N Street, Sacramento, California. The BOE building was commissioned in the last quarter of 1992 and since then has experienced a variety of water intrusion events.

On June 21, 2013 Andersen Environmental through contract amendment Task Order 6 to conduct the following (revised) quarterly air monitoring protocol/activity:

### Quarterly Air Monitoring Protocol

- The industrial hygiene (IH) sampling teams will select an air sampling date that will be submitted to BOE for approval. Currently BOE has approved the last Friday of every month for the monthly air monitoring. BOE should also notify Building Security that hygienists will require escorts onto secure floors in order to install sampling pumps.
- Each IH team will be responsible for collecting a minimum of three (3) air samples on each of the eleven (11) floors. The building HVAC system operating window is currently 5:00 AM-6:00 PM; therefore the proposed sampling window is from 4:00AM-7:00PM; the actual sampling window will be adjusted as seasonal adjustments are made to the HVAC system operating window.
- Each air sample will be drawn over approximately 2 to 3 hours using a digital count down timer to initiate and terminate the sampling event; the first sampling event shall start 0500; the last (third) sampling event time ends by 1900. A target sample rate of 7 liters per minute (LPM); total sample volume of approximately 1200 liters; the above sampling time to be adjusted to meet the target volume.
- Each IH team will collect one (1) exterior/outdoor sample per sampling period for a total of three (3) exterior/outdoor samples per IH team per day.
- Each sample will be collected, submitted under chain of custody, and analyzed for PCR-Cladosporium (Custom Panel) and one sample per floor analyzed for PCR-23 Indoor Air Molds, under standard turnaround time.
- Air samples on Floor PH and M (which are not part of the regular sampling project schedule) may be added and collected at the direction of the DGS management team.
- Air samples from Floors 2 and 21-core sampling ports (which are not part of the regular sampling project schedule) may be added and collected at the direction of the DGS management team. Type of samples TBD.
- The combined IH teams will collect 66 interior + 6 exterior = 72 total air samples.

- To demonstrate any seasonal changes within the HVAC duct interiors, surface microvac samples (which are not part of the regular sampling project schedule) may be added and collected at the direction of the DGS management team
- Samples will be analyzed for *PCR-Cladosporium Custom Panel* and certain samples will, in addition be analyzed for *PCR-23 Important Indoor Molds* under standard turnaround time.

## 2.0 Air Monitoring

On behalf of DGS, the Andersen Environmental team performed air monitoring in accordance with the Quarterly Air Monitoring Schedule and Revised Protocol on June 21, 2013. During that time, the building's HVAC system operated from approximately 0500 hours to 1900 hours. Therefore, the sampling window was from 4:00 AM to 7:00 PM for sample set-up and three rounds of sampling on each floor. (The actual sampling window will be changed as seasonal adjustments are made to the HVAC system-operating window.)

Andersen Environmental collected three (3) air samples on each of the eleven (11) even-numbered floors designated for the June Quarterly monitoring event described as follows:

- Each air sample was drawn over approximately 3 hours.
- A target sample rate of seven (7) liters per minute (LPM) was used.
- Andersen Environmental collected a total of three (3) exterior/outdoor samples; one (1) sample was taken during each sampling period. In addition, one (1) field blank was submitted for analysis.
- A total of 33 interior samples, three (3) exterior samples, and one (1) field blank were submitted under chain of custody to EMLab P&K A Test America Company Laboratory of Phoenix, Arizona offices (AIHA Accreditation 102297) and analyzed for **PCR Cladosporium Custom Panel**.
- The **PCR Cladosporium Custom Panel** Results are summarized in Table One which is broken down into the three sampling periods: Table 1 Event 1 (morning sampling period), Table 1 Event 2 (mid day sampling period), and Table 1 Event 3 (afternoon sampling period) .
- Additionally, the exterior samples, the field blank, and one (1) sample per floor were also analyzed for **PCR- 23 Important Indoor Molds**. Andersen Environmental selected the samples collected in the vicinity of the elevator lobbies for this specialized testing.
- The 23 Important Indoor Molds analytical results are summarized in Table 2.

All lab reports are included in Appendix B Lab Reports.

The Mechanical Floor's Offices were included in the quarterly monitoring. The Penthouse Floor, and the core sampling ports on Floors 2 and 21 are not part of the quarterly monitoring schedule and were not included in the monitoring conducted by Andersen Environmental.

At the direction of the DGS management team, samples from these areas may be added to the regular schedule. However, no indoor air samples were added or collected from either one of these locations during this quarterly monitoring event. To demonstrate any seasonal changes within the HVAC duct interiors, surface microvac samples – not part of the regular sampling project schedule – may be added to the regular schedule. However, no microvac samples were collected during the quarterly monitoring event.

### **3.0 Findings**

The indoor air sample laboratory results for the PCR Cladosporium Custom Panel (Table 1) as well as the PCR 23 Important Indoor Molds (Table 2) indicated spore equivalents per cubic meter of air ( $SE/m^3$ ) below the measured background or ambient concentrations.

### **4.0 Limitations and Qualifications**

The assessment performed by Andersen Environmental does not include or cover the following conditions: Conditions that are subsequently discovered that could not have been reasonable foreseen or detected by the air sample results, or using industry standards, during the performance of the assessment, including conditions that could not have been discovered by Andersen Environmental because of barriers, lack of access or other conditions affecting accessibility. Andersen Environmental did not conduct destructive testing nor was authorized to do so. Other conditions include those conditions that were not disclosed to Andersen Environmental prior to, during, or after the performance of the site assessment. Additionally, the assessment does not include new conditions or deficiencies that were not disclosed to Andersen Environmental after the completion of the assessment.

To the extent that additional information becomes available to Andersen Environmental, Andersen Environmental reserves the right (without any obligation to do so) to modify its evaluation and or this report at any time, based upon further review and analysis of any such additional information or data.

Certain items mentioned in this report were possibly performed by others not involving the supervision or management by, Andersen Environmental, but were relied upon by Andersen Environmental in making its evaluation and assessment.

This assessment conducted by Andersen Environmental and the subsequent report is not meant or intended to supplement, modify, or extinguish any warranty or representation made or give by third parties performing any recommended corrective work.

When Andersen Environmental's consultation involves microbiological growth, or any assessment thereof, such microbiological growth may re-occur if the source of the water and substrate promoting the growth is not corrected or addressed. All remediation of fungi in indoor environments can inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. Except as may be noted in the assessment performed by Andersen Environmental, subsurface areas, latent defects or non-accessible areas and conditions

were not investigated. Such subsurface conditions may differ from the conditions implied by surface observations. Additionally, the passage of time may result in a change in the environmental characteristics at the subject property (and possibly surrounding properties). No investigation or assessment can absolutely rule out the existence of any microbiological growth at any given site. Andersen Environmental does not remediate or remedy sources of microbiological growth.

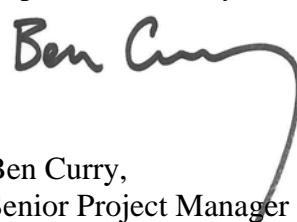
This report and the site assessment /survey conducted by Andersen Environmental is prepared, and was performed solely for the use and benefit of the client identified at the beginning of this report. No other party may rely on this report for any other purpose.

Report prepared by,



Mark Pheatt MS, CIH  
Industrial Hygienist  
Andersen Environmental

Report reviewed by,



Ben Curry,  
Senior Project Manager  
Andersen Environmental



Attachments:

- Appendix A Tables of findings
- Table 1. Round 1 Cladosporium PCR Custom Panel Data
- Table 1. Round 2 Cladosporium PCR Custom Panel Data
- Table 1. Round 3 Cladosporium PCR Custom Panel Data
- Table 2. 23 Important Indoor Molds PCR Methodology Data
- Appendix B Laboratory Reports

**Table 1 Event 1 Cladosporium Custom Panel PCR Analysis**  
**June 2013 Air Monitoring Results**  
**Board of Equalization, 450 N Street, Sacramento, California**

Location	Ground Floor AMB.*	12th Floor AMB. Air Intake S	12th Floor AMB. Air Intake N	Blank Sample	2nd Floor Elevator	4th Floor Elevator	6th Floor Elevator	8th Floor Elevator	10th Floor Elevator	12th Floor Elevator	14th Floor Elevator	16th Floor Elevator	18th Floor Elevator	20th Floor Elevator	22th Floor Elevator	24nd Floor Elevator
Sample Number	130621-AMB-EXT	130621-12-AMB-N	130621-12-AMB-S	130621-Blank	130621-2 ELEV	130621-4 ELEV	130621-6 ELEV	130621-8 ELEV	130621-10 ELEV	130621-12 ELEV	130621-14 ELEV	130621-16ELEV	130621-18 ELEV	130621-20 ELEV	130621-22 ELEV	130621-24 ELEV
Taxon SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>
Cladosporium cladosporioides Type 1	940	1200	710		12	13	16	14	5	4	33	16	7	3	3	6
Cladosporium cladosporioides Type 2	13	23	198			1	1	1	1	1		1	1	1	1	1
Cladosporium herbarum	120	170	292		2	1	2	1	3	1	2	1	1	1	1	1
Cladosporium phaeospermum	1				1	1	1	1	1	1		1	1			

AMB. = ambient, SE/m<sup>3</sup> = spore equivalents per cubic meter of air, Blank Space = Not Detected.

**Table 1 Event 2 Cladosporium Custom Panel PCR Analysis**  
**June 2013 Air Monitoring Results**  
**Board of Equalization, 450 N Street, Sacramento, California**

Location	Ground Floor AMB.*	12th Floor AMB. Air Intake S	12th Floor AMB. Air Intake N	Blank Sample	2nd Floor Rm 200 SE Corner Cube	4th Floor Rm 402 Cube 8 SE	6th Floor Rm 612 Cube 9 9401 SE	8th Floor Cube 1014 SE	10th Floor Cube 1407 cube 9 SE	14th Floor Room 1602 Cube 26 SE	16th Floor Room 1820 Cube 129 SE	18th Floor Room 1820 Cube 129 SE	20th Floor Room 2007 Quiet Room SE	22nd Floor Room 2236 Quiet Room SE	24th Floor Room 2443 SE Corner Cube
Sample Number	130621 -AMB- EXT	130621 -AMB-S	130621-12-AMB-N	130621-Blank	130621-2-200 SE	130621-4-402-Cube 102 SE	130621-6-612-SE	1306210-8-8th-SE	130621-10-1014-SE	130621-14-1407-SE	130621-16-1602-SE	130621-18-1820-SE	130621-20-2007-SE	130621-22-2236-SE	130621-24-2443-SE
Faxon SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>
Cladosporium cladosporioides Type 1	940	1200	710		2	1	5	2		5	4	2	1	2	2
Cladosporium cladosporioides Type 2	13	23	198					1			1				
Cladosporium herbarum	120	170	292		1	1	1	1	1		1	1	1	1	1
Cladosporium phaeospermum	1														

AMB. = ambient, SE/m<sup>3</sup> = spore equivalents per cubic meter of air, Blank Space = Not Detected.

**Table 1 Event 3 Cladosporium Custom Panel PCR Analysis**  
**June 2013 Air Monitoring Results**  
**Board of Equalization, 450 N Street, Sacramento, California**

Location	Ground Floor AMB.*	12th Floor AMB.	12th Floor AMB. Air Intake S	Blank Sample	2nd Floor 200 N	4th Floor 402 Cube 31 N	6th Floor Room 212 Cube 116.02 N	8th Floor Cube 146 N	10th Floor Room 1014 Cube 77 N	14th Floor Room 1407 N	6th Floor Room 1618 Conference Room N	18th Floor Room 1820 N	20th Floor Room 2002 N	22nd Floor Room 2232 Cube 50 N	24th Floor Room 2428 Conference Room N
Sample Number	30621-12-AMB-EXT	30621-12-AMB-N	30621-12-Blank	30621-200 N	130621-4-402-N	130621-6-512-N	30621-8-8th-N	130621-10-014-N	130621-14-1407-N	130621-16-618-N	130621-18-1820-N	130621-20-2002-N	130621-22-2232-N	130621-24-2428-N	
Taxon SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>
Cladosporium cladosporioides Type 1	940	1200	710		6	1	8	2	2	1	7	8	1	1	
Cladosporium cladosporioides Type 2	13	23	198			1	1		1		1			1	
Cladosporium herbarum	120	170	292		1	1	1	1		1	1	1	1	1	1
Cladosporium phaeospermum	1														

AMB. = ambient, SE/m<sup>3</sup> = spore equivalents per cubic meter of air, Blank Space = Not Detected.

**Table 2 -23 Important Indoor Molds PCR Data**  
**June 2013 Air Monitoring Results**  
**Board of Equalization, 450 N Street, Sacramento, California**

Location	Ground Floor AMB.*	12th Floor AMB.	12th Floor AMB. Air Intake S	Blank Sample	2nd Floor Elevator	4th Floor Elevator	6th Floor Elevator	8th Floor Elevator	10th Floor Elevator	12th Floor Elevator	14th Floor Elevator	16th Floor Elevator	18th Floor Elevator	20th Floor Elevator	22th Floor Elevator	24nd Floor Elevator	
Sample Number	130621- -AMB- EXT	130621- -12- AMB-S	130621- 12-AMB- N	130621- Blank	130621-2 ELEV	130621- 4 ELEV	130621- 6 ELEV	130621- 8 ELEV	130621- 10 ELEV	130621- 12 ELEV	130621- 14 ELEV	130621- 16 ELEV	130621- 18 ELEV	130621- 20 ELEV	130621- 22 ELEV	130621- 24 ELEV	
Taxon SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	SE/m <sup>3</sup>	
<i>Acremonium strictum</i>		2	1		1												
<i>Alternaria alternata</i>	2	18	19									1	1				
<i>Aspergillus flavus</i>	1	1	2														
<i>Aspergillus fumigatus</i>	1	3	1					1				1					1
<i>Aspergillus niger</i>	2	14	12					1			1						
<i>Aspergillus ochraceus</i>	1	1	1														
<i>Aspergillus ustus</i>	1		1														
<i>Aspergillus versicolor</i>	2	3								1			1				
<i>Cladosporium cladosporioides</i> (Type 1)	940	1200	710		12	13	16	14	5	4	33	16	7	3	3	6	
<i>Eurotium amstelodami</i>	110	64	16								8				8		
<i>Penicillium aurantiogriseum</i>		9	4														
<i>Penicillium brevicompactum</i>	37	7	4		2									2	3		
<i>Penicillium Chrysogenum</i> (Type 2)		1							1						1		1
<i>Penicillium purpurogenum</i>	1		1														
<i>Penicillium variabile</i>	3		9														
<i>Stachybotrys chartarum</i>		1						1									

AMB. = ambient, SE/m<sup>3</sup> = spore equivalents per cubic meter of air, Blank Space = Not Detected

Taxa reported in this table represent only those spore-types detected using PCR sample analysis methods.



Report for:

**Mr. Ben Curry**  
**Andersen Environmental**  
5261 West Imperial Highway  
Los Angeles, CA 90045

---

Regarding: Project: 1306-933; Boe Building; 450 N Street, Sacramento, CA 95814  
EML ID: 1078198

Approved by:

Dates of Analysis:  
PCR-Custom Panel: 07-02-2013

Technical Manager  
Aaron Agajanian

Service SOPs: PCR-Custom Panel (1220)

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

**EMLab P&K**1501 West Knudsen Drive, Phoenix, AZ 85027  
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-2-ELEV: 2nd Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4856996-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	16	12
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	2	2
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
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Date of Sampling: 06-21-2013  
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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-4-ELEV: 4th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4856998-1	
Sample Size:	1.26	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	16	13
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	2	1
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

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Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-6-ELEV: 6th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857000-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	20	16
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	2	2
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

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**EMLab P&K**

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Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

### CUSTOM PANEL: PCR METHODOLOGY

Location:	130621-8-ELEV: 8th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857002-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	19	14
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

#### Comments:

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**EMLab P&K**

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Client: Andersen Environmental  
C/O: Mr. Ben Curry  
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Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-10-ELEV: 10th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857004-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	7	5
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	3	3
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

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Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-12-ELEV: 12th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857006-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	5	4
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

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C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
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Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-14-ELEV: 14th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857008-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	42	33
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	3	2
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

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**EMLab P&K**

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Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-16-ELEV: 16th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857010-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	21	16
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-18-ELEV: 18th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857012-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	8	7
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	2	1
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-20-ELEV: 20th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857014-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	4	3
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-22-ELEV: 22nd Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857016-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	4	3
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-24-ELEV: 24th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857018-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	7	6
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-2-200-SE: 2nd Fl 200 SE corner cube	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857020-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	2	2
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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Date of Sampling: 06-21-2013  
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Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-4-402-SE: 4th Fl 402 cube 102 SE	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857022-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	2	1
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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Date of Sampling: 06-21-2013  
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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-6-612-SE: 6th Fl 612 cube 8 SE	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857024-1	
Sample Size:	1.44	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	7	5
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-8-8th-SE: 8th Fl cube 9401 SE	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857026-1	
Sample Size:	1.26	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	2	2
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-10-1014-SE: 10th Fl 1014, SE corner	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857028-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	ND	<1
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-14-1407-SE: 14th Fl 1407 cube 9 SE	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857030-1	
Sample Size:	1.332	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	6	5
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	ND	<1
Cladosporium sphaerospermum	ND	<1

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-16-1602-SE: 16th Fl 1602, cube 26 SE	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857032-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	6	4
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-18-1820-SE: 18th Fl 1820 cube 129 SE	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857034-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	3	2
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-20-2007-SE: 20th Fl 2007 quiet rm SE	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857036-1	
Sample Size:	1.26	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	1	1
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-22-2236-SE: 22nd Fl 2236 quiet rm SE	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857038-1	
Sample Size:	1.26	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	2	2
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-24-2443-SE: 24th Fl 2443 SE corner	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857040-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	3	2
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

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### CUSTOM PANEL: PCR METHODOLOGY

Location:	130621-2-200-N: 2nd Fl 200 North	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857042-1	
Sample Size:	1.357	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	8	6
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	2	1
Cladosporium sphaerospermum	1	<1

\*Spore equivalents      ND = Not Detected

#### Comments:

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-4-402-N: 4th Fl 402 cube 31	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857044-1	
Sample Size:	1.386	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	2	1
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-6-612-N: 6th Fl 612 cube 116.02	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857046-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	11	8
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-8-8th-N: 8th fl 8th cube 146 N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857048-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	3	2
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-10-1014-N: 10th Fl 1014 cube 77 N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857050-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	2	2
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	ND	<1
Cladosporium sphaerospermum	ND	<1

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-14-1407-N: 14th Fl 1407 North N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857052-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	1	1
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-16-1618-N: 16th Fl 1618 conf rm N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857054-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	9	7
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-18-1820-N: 18th Fl 1820 North N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857056-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	10	8
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

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**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-20-2002-N: 20th DL 2002 North N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857058-1	
Sample Size:	1.332	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	1	1
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-22-2232-N: 22nd Fl 2232 cube 50 N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857060-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	2	1
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-24-2428-N: 24th Fl 2428 conf rm N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857062-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	2	2
Cladosporium cladosporioides (Type 2)	1	1
Cladosporium herbarum	1	1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

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Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-1-AMB-EXT: Ground Fl ambient	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857064-1	
Sample Size:	1.012	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	950	940
Cladosporium cladosporioides (Type 2)	13	13
Cladosporium herbarum	120	120
Cladosporium sphaerospermum	1	1

\*Spore equivalents      ND = Not Detected

**Comments:**

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Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-12-AMB-S: 12th Fl ambient: air intake, S	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857066-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	1600	1200
Cladosporium cladosporioides (Type 2)	30	23
Cladosporium herbarum	220	170
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

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Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-12-AMB-N: 12th Fl ambient: air intake, N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857068-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	940	710
Cladosporium cladosporioides (Type 2)	11	8
Cladosporium herbarum	120	92
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

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**EMLab P&K**

1501 West Knudsen Drive, Phoenix, AZ 85027  
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

**CUSTOM PANEL: PCR METHODOLOGY**

Location:	130621-BLANK: Blank	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857070-1	
Sample Size:	0	
Unit:	sample	
	SE*	SE*/Unit
Cladosporium cladosporioides (Type 1)	ND	<1
Cladosporium cladosporioides (Type 2)	ND	<1
Cladosporium herbarum	ND	<1
Cladosporium sphaerospermum	ND	<1

\*Spore equivalents      ND = Not Detected

**Comments:**

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Ben Curry**  
**Andersen Environmental**  
5261 West Imperial Highway  
Los Angeles, CA 90045

---

Regarding: Project: 1306-933; Boe Building; 450 N Street, Sacramento, CA 95814  
EML ID: 1078198

Approved by:

Dates of Analysis:  
PCR-23 important indoor molds: 06-29-2013 and 07-03-2013

Technical Manager  
Aaron Agajanian

Service SOPs: PCR-23 important indoor molds (1220)

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-2-ELEV: 2nd Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4856997-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	1	1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<5
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	16	12
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	3	2
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<2
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-4-ELEV: 4th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4856999-1	
Sample Size:	1.26	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<4
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	16	13
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	ND	<1
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<2
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

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Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-6-ELEV: 6th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857001-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	2	1
<i>Aspergillus niger</i>	1	1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<4
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	20	16
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	ND	<1
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<2
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	1	1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

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Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-8-ELEV: 8th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857003-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<6
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	19	14
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<2
<i>Penicillium brevicompactum</i>	ND	<2
<i>Penicillium chrysogenum</i> (Type 2)	1	1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

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Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-10-ELEV: 10th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857005-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<5
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	1	1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	7	5
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	ND	<1
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

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Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-12-ELEV: 12th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857007-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	1	1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<5
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	5	4
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	10	8
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<2
<i>Penicillium brevicompactum</i>	ND	<1
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-14-ELEV: 14th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857009-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	1	1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	1	1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<5
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	42	33
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	ND	<1
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-16-ELEV: 16th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857011-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	1	1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<5
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	1	1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	21	16
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	ND	<1
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-18-ELEV: 18th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857013-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<5
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	8	7
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	2	2
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-20-ELEV: 20th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857015-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<4
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	4	3
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	10	8
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	4	3
<i>Penicillium chrysogenum</i> (Type 2)	1	1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<2
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-22-ELEV: 22nd Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857017-1	
Sample Size:	1.278	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<5
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	4	3
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	ND	<1
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-24-ELEV: 24th Fl elevator	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4857019-1	
Sample Size:	1.296	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	1	1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<5
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	7	6
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<1
<i>Penicillium brevicompactum</i>	ND	<1
<i>Penicillium chrysogenum</i> (Type 2)	2	1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-1-AMB-EXT: Ground Fl ambient	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4858207-1	
Sample Size:	1.012	
Unit:	m3	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	2	2
<i>Aspergillus flavus</i>	1	1
<i>Aspergillus fumigatus</i>	1	1
<i>Aspergillus niger</i>	2	2
<i>Aspergillus ochraceus</i>	1	1
<i>Aspergillus sydowii</i>	ND	<6
<i>Aspergillus ustus</i>	1	1
<i>Aspergillus versicolor</i>	3	2
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	950	940
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	110	110
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<2
<i>Penicillium brevicompactum</i>	37	37
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	1	1
<i>Penicillium variabile</i>	3	3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium* (Asp.) *amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum* (Type 2): Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
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Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-12-AMB-S: 12th Fl ambient: air intake, S	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4858208-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	3	2
Alternaria alternata	23	18
Aspergillus flavus	1	1
Aspergillus fumigatus	4	3
Aspergillus niger	18	14
Aspergillus ochraceus	1	1
Aspergillus sydowii	ND	<4
Aspergillus ustus	ND	<1
Aspergillus versicolor	4	3
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	1600	1200
Eurotium (Asp.) amstelodami	84	64
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	12	9
Penicillium brevicompactum	10	7
Penicillium chrysogenum (Type 2)	1	1
Penicillium purpurogenum	ND	<1
Penicillium variabile	ND	<2
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	1	1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-12-AMB-N: 12th Fl ambient: air intake, N	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4858209-1	
Sample Size:	1.314	
Unit:	m3	
	SE*	SE*/Unit
Acremonium strictum	1	1
Alternaria alternata	26	19
Aspergillus flavus	2	2
Aspergillus fumigatus	1	1
Aspergillus niger	15	12
Aspergillus ochraceus	1	1
Aspergillus sydowii	ND	<5
Aspergillus ustus	1	1
Aspergillus versicolor	ND	<1
Chaetomium globosum	ND	<1
Cladosporium cladosporioides (Type 1)	940	710
Eurotium (Asp.) amstelodami	22	16
Memnoniella echinata	ND	<1
Paecilomyces variotii	ND	<1
Penicillium aurantiogriseum	5	4
Penicillium brevicompactum	6	4
Penicillium chrysogenum (Type 2)	ND	<1
Penicillium purpurogenum	1	1
Penicillium variabile	12	9
Scopulariopsis brevicaulis	ND	<1
Stachybotrys chartarum	ND	<1
Trichoderma viride	ND	<1
Ulocladium botrytis	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

*Aspergillus niger*: Includes *A. niger*, *A. foetidus* and *A. phoenicis*

*Aspergillus ochraceus*: Includes *A. ochraceus* and *A. ostianus*

*Eurotium (Asp.) amstelodami*: Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

*Penicillium aurantiogriseum*: Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

*Penicillium chrysogenum (Type 2)*: Includes dominant subgroup of species

*Scopulariopsis brevicaulis*: Includes *S. brevicaulis* and *S. fusca*

*Trichoderma viride*: Includes *T. viride*, *T. atroviride* and *T. koningii*

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Andersen Environmental  
C/O: Mr. Ben Curry  
Re: 1306-933; Boe Building; 450 N Street,  
Sacramento, CA 95814

Date of Sampling: 06-21-2013  
Date of Receipt: 06-24-2013  
Date of Report: 07-03-2013

## 23 IMPORTANT INDOOR MOLDS: PCR METHODOLOGY

Location:	130621-BLANK: Blank	
Comments (see below)	None	
Sample Type:	Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	4858210-1	
Sample Size:	1	
Unit:	sample	
	SE*	SE*/Unit
<i>Acremonium strictum</i>	ND	<1
<i>Alternaria alternata</i>	ND	<1
<i>Aspergillus flavus</i>	ND	<1
<i>Aspergillus fumigatus</i>	ND	<1
<i>Aspergillus niger</i>	ND	<1
<i>Aspergillus ochraceus</i>	ND	<1
<i>Aspergillus sydowii</i>	ND	<6
<i>Aspergillus ustus</i>	ND	<1
<i>Aspergillus versicolor</i>	ND	<1
<i>Chaetomium globosum</i>	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	ND	<1
<i>Eurotium</i> (Asp.) <i>amstelodami</i>	ND	<1
<i>Memnoniella echinata</i>	ND	<1
<i>Paecilomyces variotii</i>	ND	<1
<i>Penicillium aurantiogriseum</i>	ND	<2
<i>Penicillium brevicompactum</i>	ND	<2
<i>Penicillium chrysogenum</i> (Type 2)	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1
<i>Penicillium variabile</i>	ND	<3
<i>Scopulariopsis brevicaulis</i>	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1
<i>Trichoderma viride</i>	ND	<1
<i>Ulocladium botrytis</i>	ND	<1

\*Spore equivalents      ND = Not Detected

### Comments:

*Aspergillus flavus*: Includes *A. flavus* and *A. oryzae*

*Aspergillus fumigatus*: Includes *A. fumigatus* and *Neosartorya fischeri*

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‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".